



DEMANDING CONDITIONS, EXCEPTIONAL SOLUTIONS



A PROFILE OF KENZFIGEE



KENZFIGEE IS A SPECIALIST SUPPLIER OF LIFTING, HOISTING AND OFFSHORE EQUIPMENT & SERVICES ENGINEERED TO THE SPECIFIC NEEDS OF ITS CLIENTS IN THE MARINE, OFFSHORE AND WIND ENERGY INDUSTRIES. A TRUSTED BRAND OF THE WORLD'S OLDEST CRANE MANUFACTURER, FIGEE (EST. 1836); COMBINED WITH THE EXPERTISE OF KENZ, A LEADING OFFSHORE CRANE BUILDER SINCE THE EARLY DAYS OF OFFSHORE EXPLORATION AND PRODUCTION IN THE NORTH SEA.

With about 4,500 cranes designed and built to the most demanding conditions and client-specific requirements, KENZFIGEE's mission is to build on its history of product excellence and technology innovation to provide the highest quality, most reliable and durable products and services to its world-wide clients. The aim is to support clients to increase operational efficiency and to minimize downtime of equipment, by developing and expanding sustainable solutions for the industry, based on client interaction.

At KENZFIGEE we take care of clients during the whole life cycle of the equipment: from creation to disposal. Our experienced professionals have proven capable of finding answers to even the toughest challenges faced by today's marine, offshore and wind energy industries. A team of service engineers offers a variety of services to make day-to-day operations more efficient for clients worldwide.

KENZFIGEE has its main office in Zaandam, the Netherlands and branch offices in Aberdeen, UK and Abu Dhabi, UAE.

TIMELINE

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| 1836 | Establishment of Figuee in Haarlem, NL |
| 1871 | Delivery of first steam driven crane by Figuee |
| 1882 | Delivery of the first grab crane by Figuee |
| 1961 | Figuee delivers first electrical driven harbor crane |
| 1977 | Merger of Kraantechniek and Kramer en Zwart to form Kenz Kraantechniek in Wormer, NL |
| 1980 | Kenz delivers first Ram Luffing type crane |
| 1981 | Delivery of the first KENZ Boom Hoist offshore cranes |
| 1985 | Figuee delivers first floating harbor crane |
| 1995 | Management buy-out of KENZ Kraantechniek to become KENZ Cranes |
| 1999 | Delivery of largest floating 50t harbor grab crane 'Nijlpaard' by Figuee |
| 2005 | KENZ acquires Figuee to become: KENZFIGEE |
| 2016 | MeeMaken B.V. takes majority stake in KENZFIGEE |



BULK HANDLING CRANES

SINCE ITS ESTABLISHMENT IN 1836, KENZFIGEE HAS EARNED A WORLDWIDE SOLID REPUTATION AS A LEADING DESIGNER AND MANUFACTURER OF VARIOUS TYPES OF HARBOR CRANES AND HOISTING SYSTEMS. OVER THE YEARS, KENZFIGEE HAS CAREFULLY FOLLOWED AND ANTICIPATED THE EXPANSION AND DEVELOPMENT OF LOADING/UNLOADING IN PORTS AND GAINED EXTENSIVE EXPERIENCE TO BECOME A SPECIALIST MANUFACTURER KNOWN FOR ITS HIGH-QUALITY RAIL MOUNTED AND FLOATING CRANES.

Ever since the mid-19th century, our robust and reliable cranes have shaped the skylines of ports around the world, building our reputation as a leading supplier of harbor cranes and lifting systems. Our floating and shore-based bulk handling cranes meet the highest capacity and efficiency levels.

The bulk handling cranes delivered by KENZFIGEE are operational in the continuous movement of harbors and transshipment facilities of which the majority are still in service. Solid proof, not only of the quality of our products, but also of



our service portfolio which includes refurbishments, modifications and lifetime extensions.

Our dry bulk handling solutions for transshipments and terminals of all sizes and configurations include the rail-mounted **Double Jib Level Luffing** and the **Bulkbuster™** and **Lemniscate** transshipment cranes. First pioneered by KENZFIGEE, these high quality and heavy duty range cranes made us an industry leader. The Bulkbuster™ and Lemniscate cranes are specially designed for floating applications, available in seagoing (ALM) and harbor (ALP) versions, and allow for high capacity loading and offloading of ships, whilst maintaining stability and buoyancy of the vessel.

The Double Jib Level Luffing, Bulkbuster™ and Lemniscate cranes are designed for low maintenance because of the long lifespan of the components used. The popular Lemniscate crane is particularly suitable for high-volume transshipment capacities, while the Bulkbuster™ derrick crane is a cost-efficient developed transshipment solution.

NAVY & DEFENSE CRANES

CRANES AND EQUIPMENT DEPLOYED IN THE NAVY & DEFENSE INDUSTRY REQUIRE SPECIAL CARE IN DESIGN. BASED ON ITS WIDE RANGE OF EXPERIENCE, KENZFIGEE OFFERS THE FLEXIBILITY AND ABILITY TO DESIGN TO THESE SPECIFIC CODES AND REQUIREMENTS FOR SPECIALLY EQUIPPED CRANES, TO SUPPORT ALL NECESSARY TASKS AND ACTIVITIES, SAFELY AND RELIABLY, SUCH AS AMMUNITION HANDLING ON BOARD NAVY VESSELS OR ON QUAYSIDES.

Since many years KENZFIGEE has been a trusted supplier of ammunition handling equipment on board of navy vessels and ammunition jetties for the navy and defense industry.

The **Ram Luffing ammunition** cranes have proven very suitable for these demanding tasks and are manufactured according to the most stringent regulations applicable within the respective navy organizations, and designed for extreme lifetimes of up to 50 years or more.

With its compact and robust design, the Ram Luffing crane is the ideal low maintenance crane. The relatively small number of moving parts makes these cranes highly reliable, while requiring limited maintenance. The design has proven itself over the years with an installed base of more than 50 cranes.

Where compact design and maximum outreach are required, KENZFIGEE can offer its **Ram Luffing Telescopic** crane or **Knuckle Boom** crane. The Ram Luffing Telescopic crane has a high lifting capacity with a relatively small pendulum in retracted boom position and can have an extended reach for small loads. The Telescopic crane is mainly designed for compact storage and especially suited for the more benign areas in the world, offering a cost-effective lifting and handling solution. For use in harsher environments KENZFIGEE recommends its Knuckle Boom crane, which offers more precise control of the load.





OFFSHORE CRANES

WITH AN INSTALLED BASE OF MORE THAN 300 PEDESTAL MOUNTED CRANES FOR ALL KINDS OF OFFSHORE STRUCTURES AND VESSELS AND A TRACK RECORD OF OVER 50 YEARS, KENZFIGEE IS A TRUSTED NAME IN CRANE DESIGN, ENGINEERING AND CONSTRUCTION.





Safety, reliability and efficiency are all equally essential to offshore deployment. KENZFIGEE designs and constructs cranes for both new-build and existing installations like drilling units, FPSOs, production platforms and heavy-lift vessels to meet clients' requirements.

Our cranes and equipment are on duty under demanding circumstances and have proven their sturdiness in the harshest environments



of the North Sea, Asia Pacific and Brazil area. Our clients' activities range from exploration and production to subsea construction and heavy-lift installation. Our designs and technology cover the same range, so we can offer – for example – cranes with ATEX certification as well as cranes with deep-water lowering and Active Heave Compensation winches.

At KENZFIGEE we build tailor-made, high capacity and efficiently configured **Boom Hoist cranes**, based on well proven designs. Their lightweight design and robustness make these cranes ideal for performing operations that require a high load-radius combination at both fixed and floating installations.

With its compact and robust design and relatively small number of moving parts, the **Ram Luffing crane** is the ideal low maintenance crane for offshore installations and all types of vessels operating in harsh offshore environments. The design has proven

itself over the years with an installed base of more than 50 cranes. This crane type is optimized for small to medium day-to-day lifts at a moderate radius and specifically suitable for smaller (unmanned) platforms, production platforms, FPSOs and other ships. When control over the load is a paramount requirement, the KENZFIGEE **Knuckle Boom crane** is the perfect solution. Our design is based on efficient reconfiguration of proven technology and offers flexibility for customization. This crane type has been developed for use on different types of offshore (support) vessels, to control and lift loads in a more stable way during dynamic seagoing conditions. With the main hoist rope running over the main boom and underneath the knuckle jib, this unique design allows for lifting taller and heavier loads by a quick and simple reconfiguration of the wire. As less deck space is blocked by the crane, it is extremely suitable for operation on board of floating installations and offshore construction vessels.

OFFSHORE EQUIPMENT

IN ADDITION TO OUR PORTFOLIO OF CRANES, KENZFIGEE ALSO SUPPORTS ITS CLIENTS WITH A BROAD RANGE OF STAND-ALONE OR INTEGRATED SYSTEMS, BASED ON THE SAME PRINCIPLES OF SAFE AND RELIABLE LIFTING, HOISTING AND HANDLING. DEEP SEA INSTALLATION, HARSH ENVIRONMENT OFFSHORE SUPPLY AND PERSONNEL SAFETY ARE AMONG THE MAIN PURPOSES SERVED BY THESE TAILOR-MADE SPECIALTIES.



SeaSpyder, personnel can be transferred in a vertical direction using a cabin as an intrinsically safe alternative to man baskets.

KENZFIGEE offers its **Active Motion Compensation (heave)** technology not just integrated in its cranes, but also as stand-alone equipment. Our experience in this field ranges from linear systems to compensation on winch drums, both as a new-build or upgrade option. KENZFIGEE has designed and built damper systems based on the same principles of motion compensation. The KENZFIGEE **FPSO surge damper system** reduces extreme surge (forward and backward) motion of the moored floating unit during bad weather conditions. Furthermore, a reduction of swinging motion (pendulum) of the yoke system is achieved.

KENZFIGEE has presented its own vision on the **A-Frame**. Our A-Frame Crane design is the result of ingenious engineering and experience in harsh environments. A unique feature is the girder, which stays in an upright position during lifting operations, making it ideal for launch & recovery systems and cable laying vessels.

Other specially developed offshore tools include a **Subsea Cutting Tool** for utilization in the decommissioning of jackets and wind turbine mono-piles; a multi-purpose, modular and lightweight **Special Purpose Derrick crane (SPD)** for temporary use on offshore platforms; and a variety of **Mooring and Hoisting Winches** with or without heavy compensation. All offshore equipment tools are tailor-made and manufactured to client specifications at our own yard.

Our close cooperation with our clients to meet specific demands, our vast offshore oil & gas experience, a keen eye for market developments and a focus on product excellence and technology innovation, have resulted in a series of tailor-made solutions. Some examples are shown here.

Our **Motion Compensated Walk-to-Work Gangway** solutions have proven to contribute to safe and efficient personnel and cargo transfer during offshore operations. The KENZFIGEE gangway solutions can be offered as **Active (AMC) and Passive (PMC)** systems, each meeting specific operational requirements. Our AMC gangway design offers unique features, like a 1-ton lifting capability and a super low docking pressure. These systems are currently used in the offshore oil & gas and wind energy industry. For a more comfortable and smoother transfer of personnel, KENZFIGEE has co-developed the SeaSpyder. With the





WIND ENERGY CRANES

THE UNDENIABLE GLOBAL ENERGY TRANSITION CALLS FOR INDUSTRIES TO BROADEN THEIR FOCUS AND EXTEND THEIR REACH. WHILE THE WORLD HAS LITTLE CHOICE BUT TO CONTINUE RELYING ON CONVENTIONAL ENERGY FOR AT LEAST DECADES TO COME, DEVELOPMENTS IN RENEWABLE ENERGY NEED TO BE ADDRESSED AT THE SAME TIME. AS A TRUSTED PARTNER OF THE ENERGY INDUSTRIES, WE ARE INNOVATING SIDE BY SIDE WITH OUR CLIENTS.

KENZFIGEE designs and constructs tailor-made cranes for offshore wind turbine installation. These include high-capacity **Boom Hoist cranes**, designed for efficient maintenance and modularly constructed for easy deployment, upgrading and modification.

We also build **Leg Encircling cranes** with capacities of up to 2,500 tons to be fitted on wind turbine installation vessels; and **Telescope cranes**.

For effective maintenance of wind turbines, we have developed a series of **Up-Tower cranes** which can provide lifting capacity during major component repairs in wind turbine nacelles.





CRANE SERVICES



KENZFIGEE HAS A TEAM OF QUALIFIED MULTI-DISCIPLINED SERVICE ENGINEERS AVAILABLE TO ENSURE A LONG LIFETIME OF OUR CLIENTS' LIFTING EQUIPMENT. MANAGED FROM OUR HEAD OFFICE IN THE NETHERLANDS, AND SUPPORTED FROM OUR REGIONAL OFFICES IN THE U.A.E. AND U.K., QUICK RESPONSE TIMES ARE ACHIEVED FOR ALL BRANDS AND TYPES OF CRANES. THROUGH A GLOBAL NETWORK OF SUPPLIERS, KENZFIGEE IS ABLE TO INSTANTLY SOURCE AND SUPPLY ORIGINAL SPARE PARTS TO MINIMIZE DOWNTIME OF EQUIPMENT.

At KENZFIGEE, we are recognized for the robustness and long lifetime of our lifting equipment. Our dedication to excellence is not limited to the engineering and construction of our products, but also extends to a variety of maintenance services and long term care of manufactured equipment or mechanical offshore tools of any brand.

We take pride in quick, efficient and competitive response to all of our clients' modification, overhaul, refurbishment or lifetime extension requirements, spare parts and repairs, as well as training of clients' own technical crews.

Based on crane usage, operating environment, duty classification, OEM recommendations and local regulations, KENZFIGEE provides **Condition-based Monitoring, Preventive and Predictive Maintenance** services to minimize unscheduled downtime and to improve equipment safety and productivity. Our **Remote Access System (RAS)** even allows remote analyses, monitoring and troubleshooting for real-time technical support.

With the introduction of the **TotalCareSM** package of services, KENZFIGEE has the competency and technology to help you to maximise operational performance, minimise unscheduled operational downtime, save costs and improve safety of your equipment. It ensures our commitment of taking total care of your equipment and eliminating maintenance concerns during its operational lifetime.

Our comprehensive Services portfolio includes:



Inspections



Overhauls



Installations



Refurbishments



Lifetime Extensions



Repairs



Maintenance



Spare parts



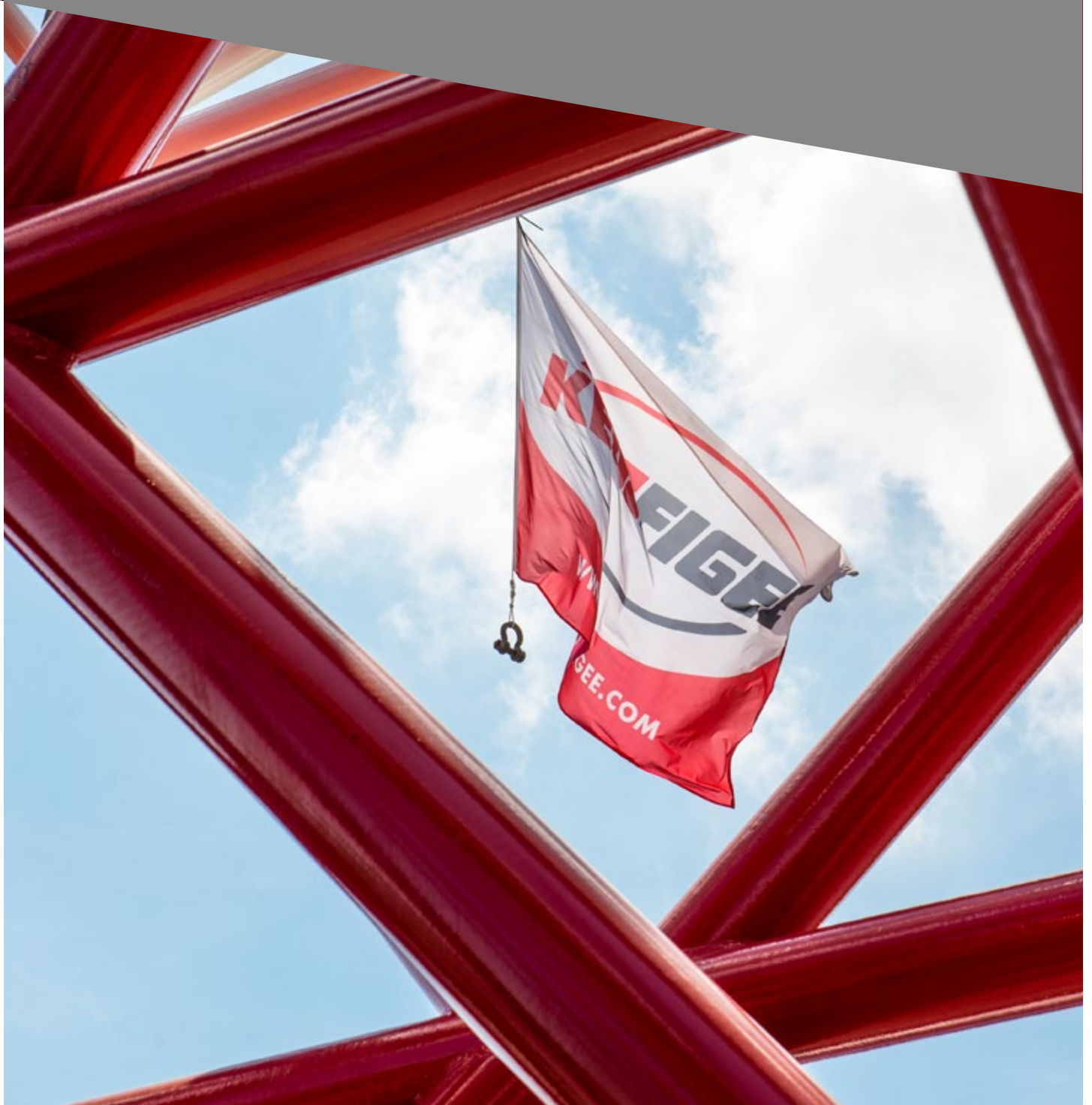
Modifications



Training

KENZFIGEE HAS
**THE EXPERIENCE
AND RESOURCES**

TO LIFT YOUR
EXPECTATIONS





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